

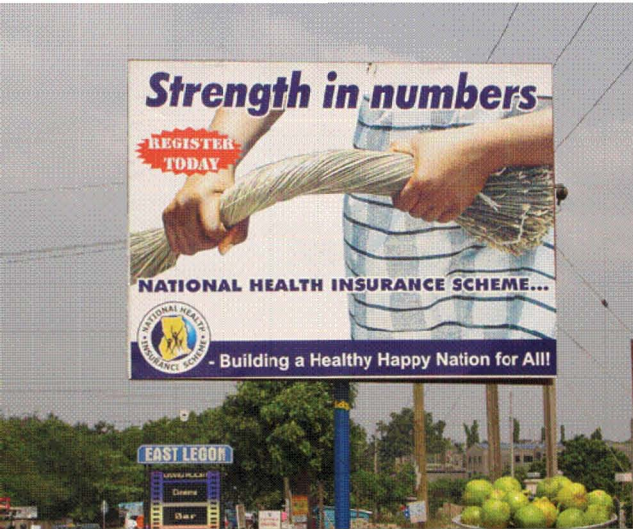


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# **Global Health Technical Essentials Series Health Systems Overview**

## **Demystifying Health Systems**

**Bob Emrey  
Yogesh Rajkotia**







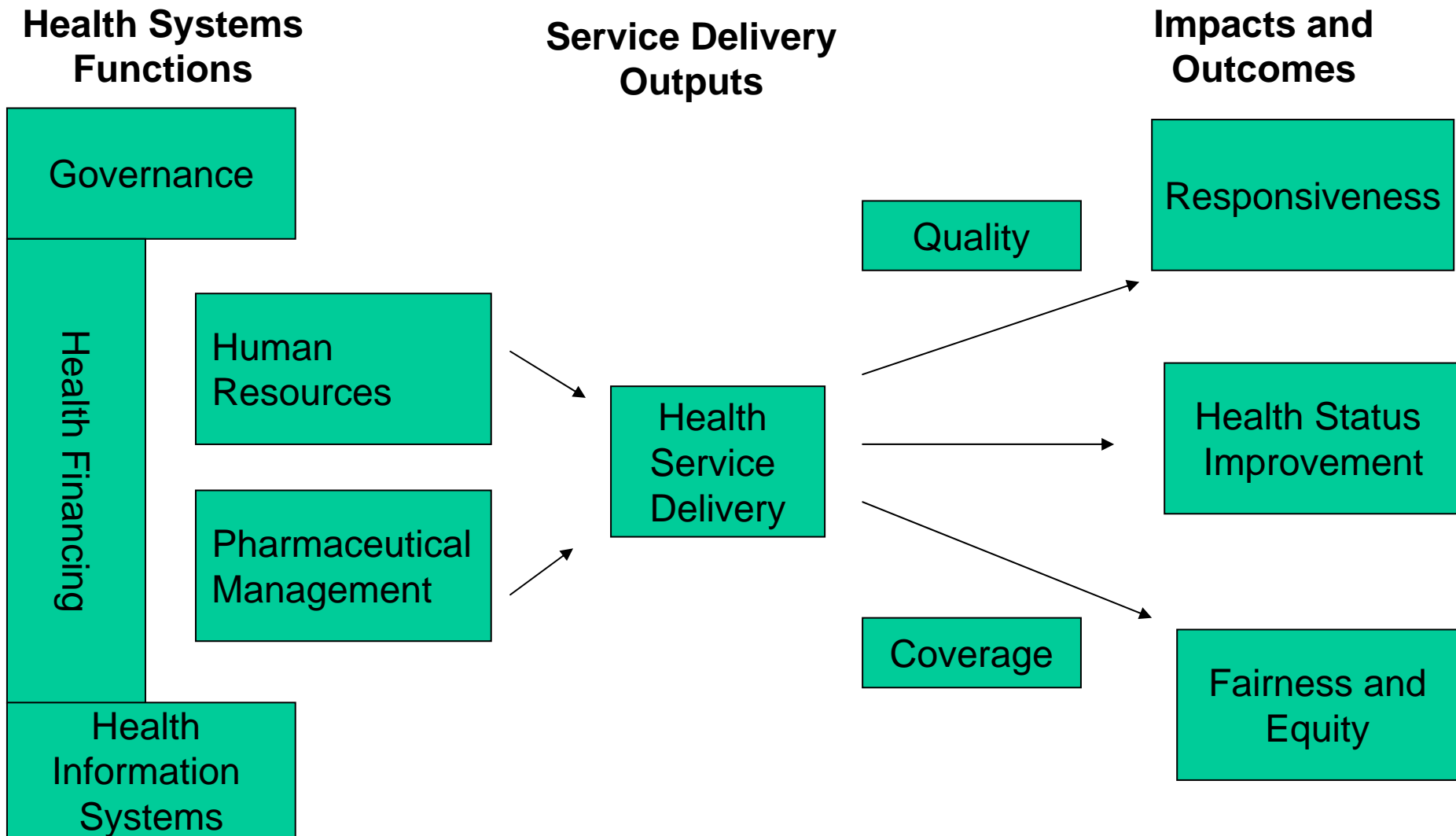
# Learning Objectives

1. Name and define the 6 health system functional components;
2. Recognize basic types of health systems problems typically encountered in the field for the purpose of requesting expert assistance;
3. Identify 2-3 principal areas of intervention to address health systems problems within each of the 6 components;
4. Explain the rationale for conducting an assessment of health systems as a contribution to achieving health element objectives



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# Health Systems Functions and Impacts





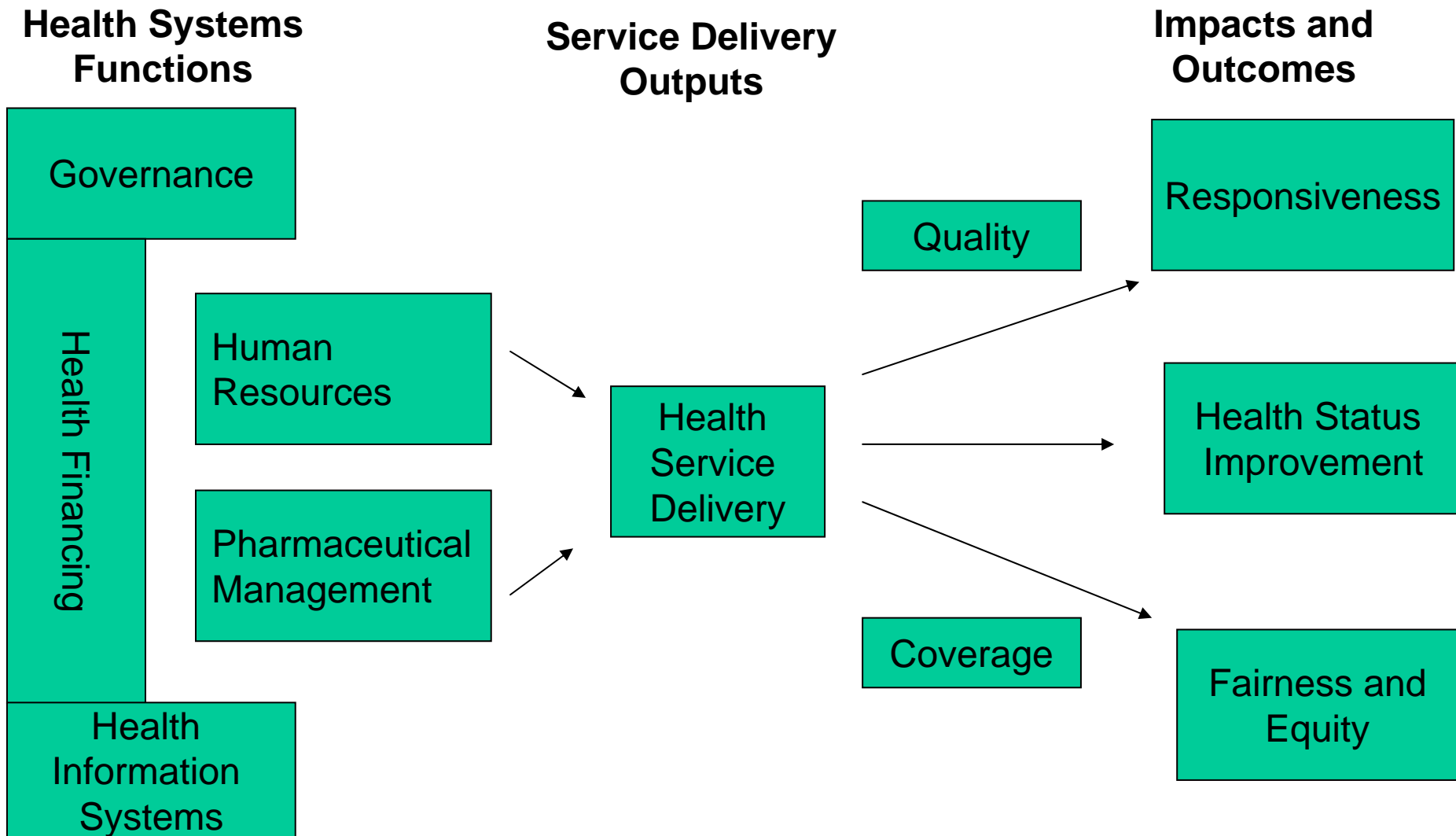
## Five Key Performance Criteria

- 
- Equity
  - Access
  - Quality
  - Efficiency
  - Sustainability



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# Health Systems Functions and Impacts





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# 1. Health Service Delivery



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## Sample Health Sector Pyramid from Angola Health System







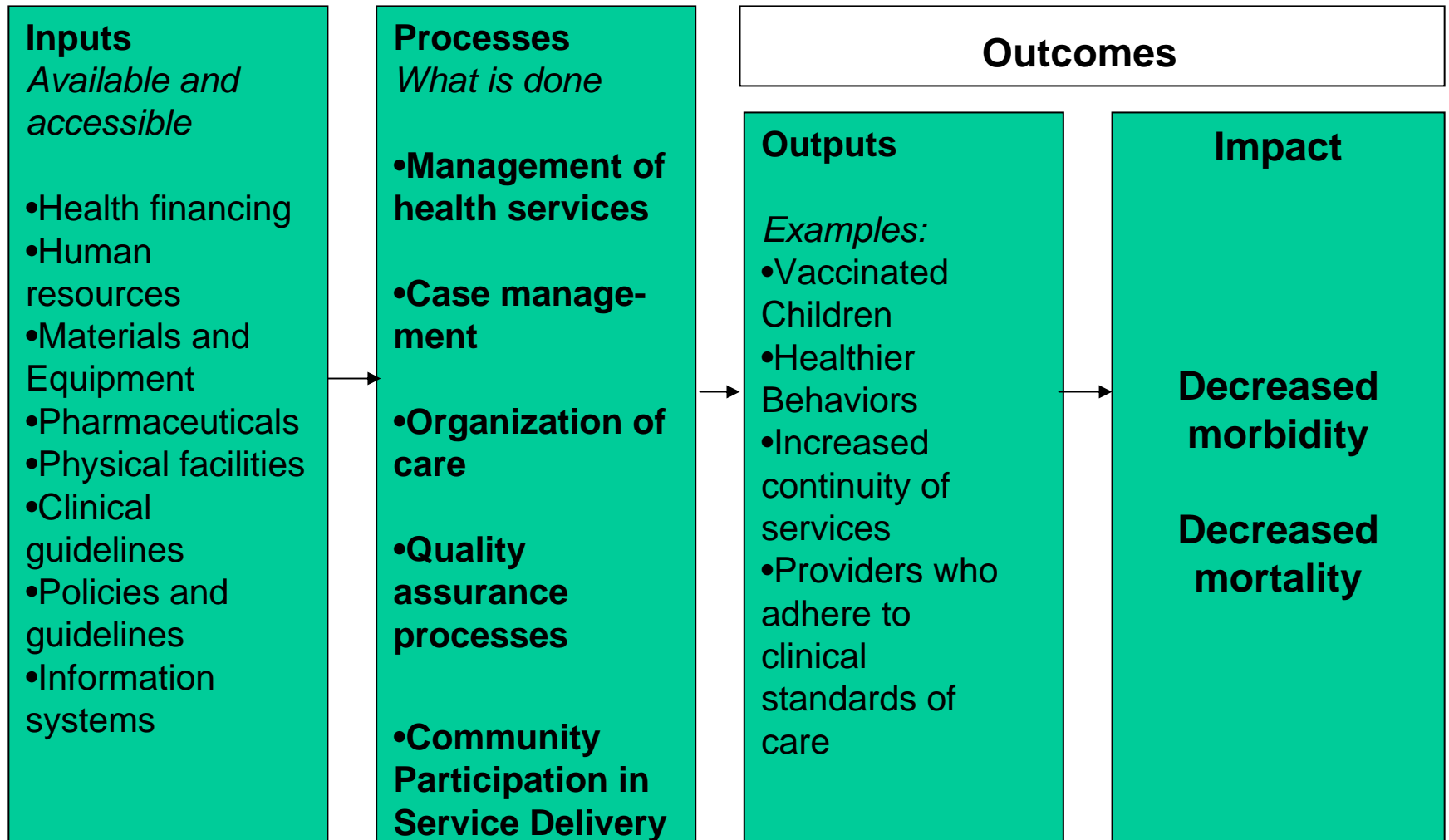
# Definitions

- The World Health Organization (WHO) defines *service delivery* as the way inputs are combined to allow the delivery of a series of interventions or health actions (WHO 2001)
- Includes both personal health and public health services
- Includes platforms for health actions in facilities and also in villages, homes, and other settings



- For-profit (commercial) and nonprofit (nongovernmental organization) formal health care providers, including hospitals, health centers, and clinics
- Traditional and informal practitioners, including traditional midwives and healers
- Membership organizations for such providers such as professional associations or unions
- Private companies who may take actions to protect or promote the health of their employees (such as company clinics or health education programs)

# Systemic View of Service Delivery





# What does quality assurance include:

- Development of evidence-based guidelines
- Routine monitoring of quality of care
- Promoting compliance with guidelines
- Problem solving/quality improvement
- Re-design of systems of care
- Patient satisfaction/community input into care
- Regulatory strategies



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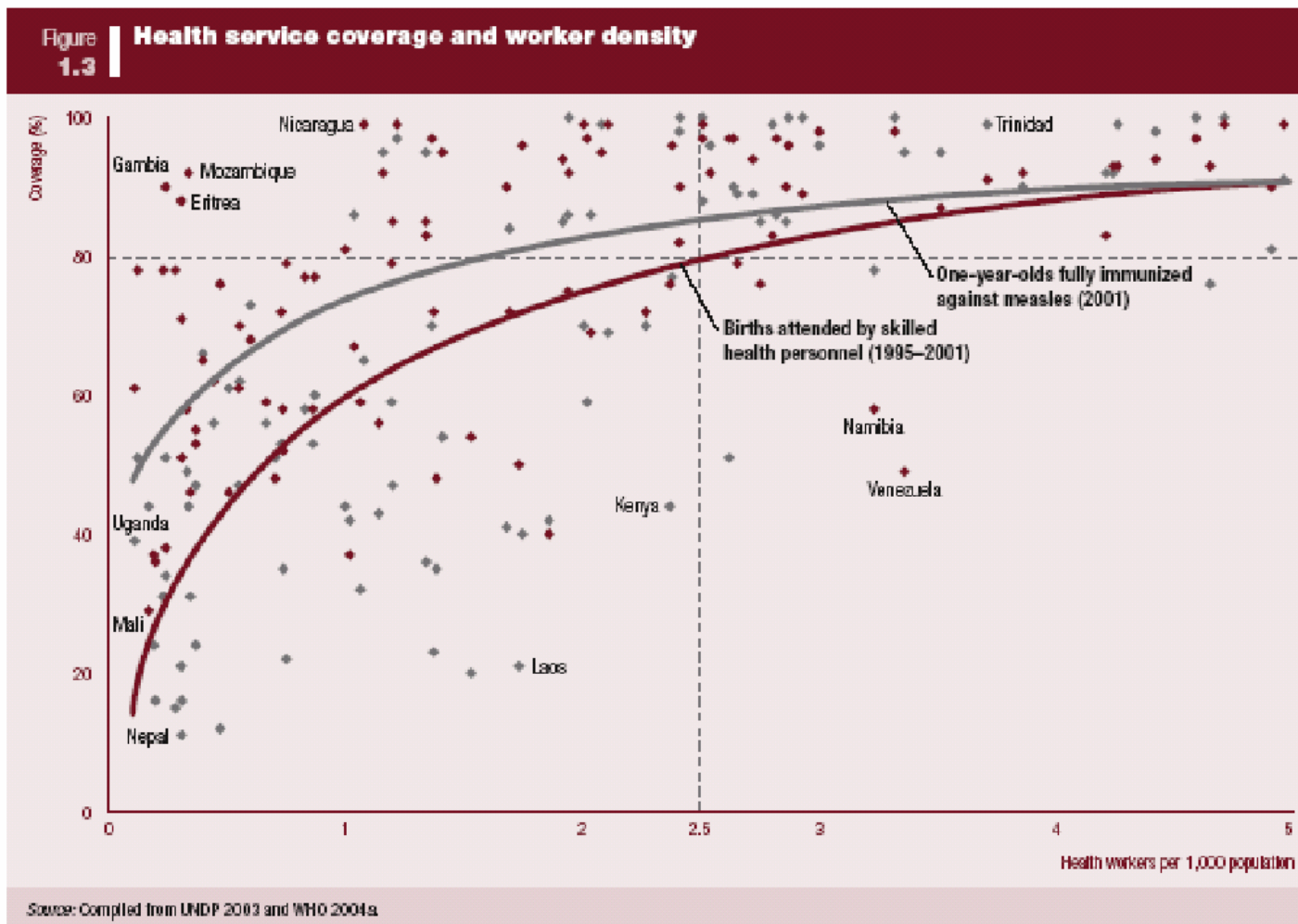
## 2. Human Resources

**Health workers deliver quality  
responsive services**



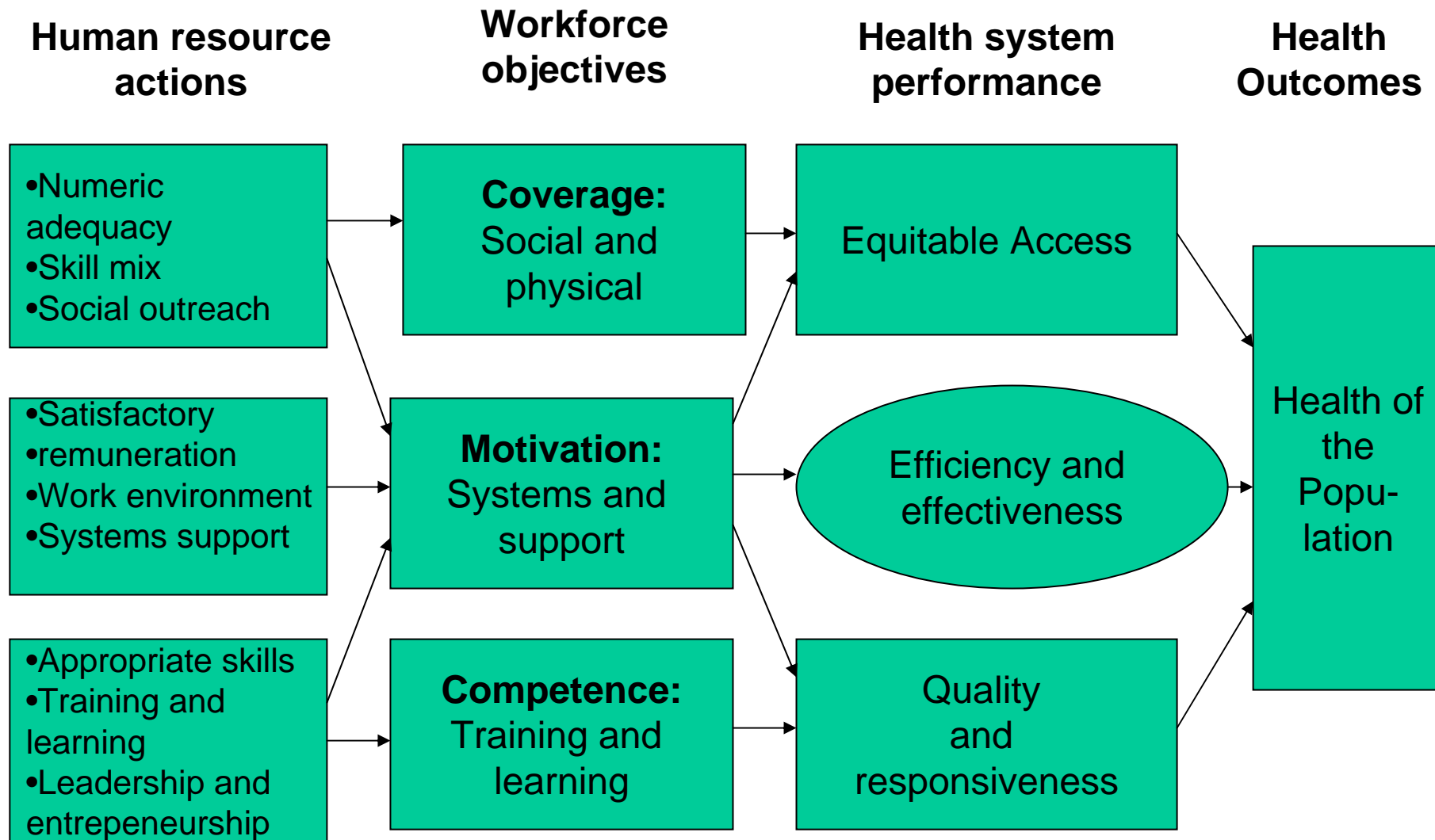
Density of 2.5 workers per 1,000 as a threshold of worker density necessary to attain coverage.

Health service coverage (%)



Health workers per 1,000 population

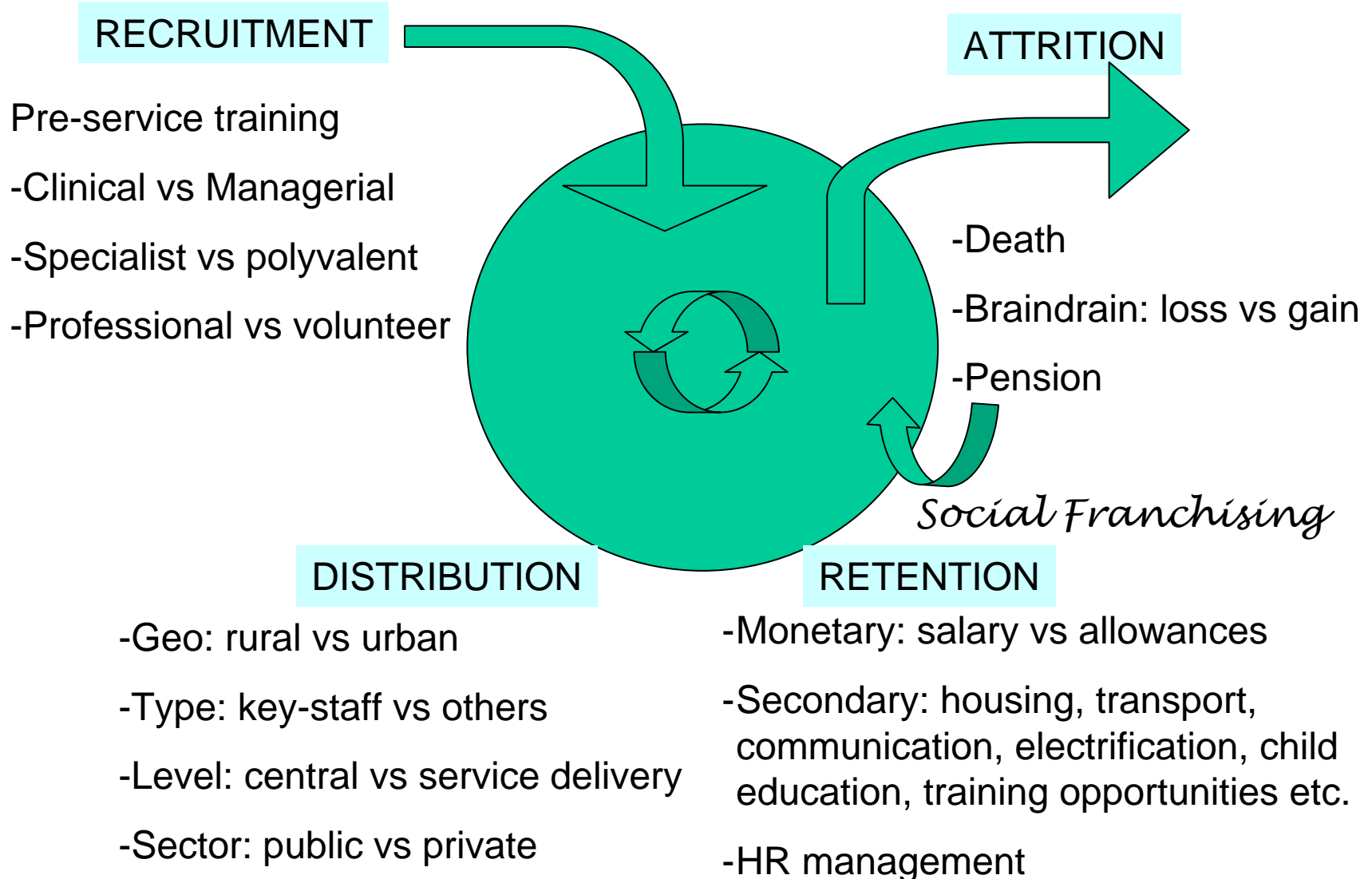
# Human Resource Actions





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# Human Resources Cycle



## **What does human resource management include?**

- Supplying appropriate staff for system needs
- Systems to manage performance
- Personnel admin that supports services
- Integrate education/training and services
- Appropriate emphasis to HR in planning and management



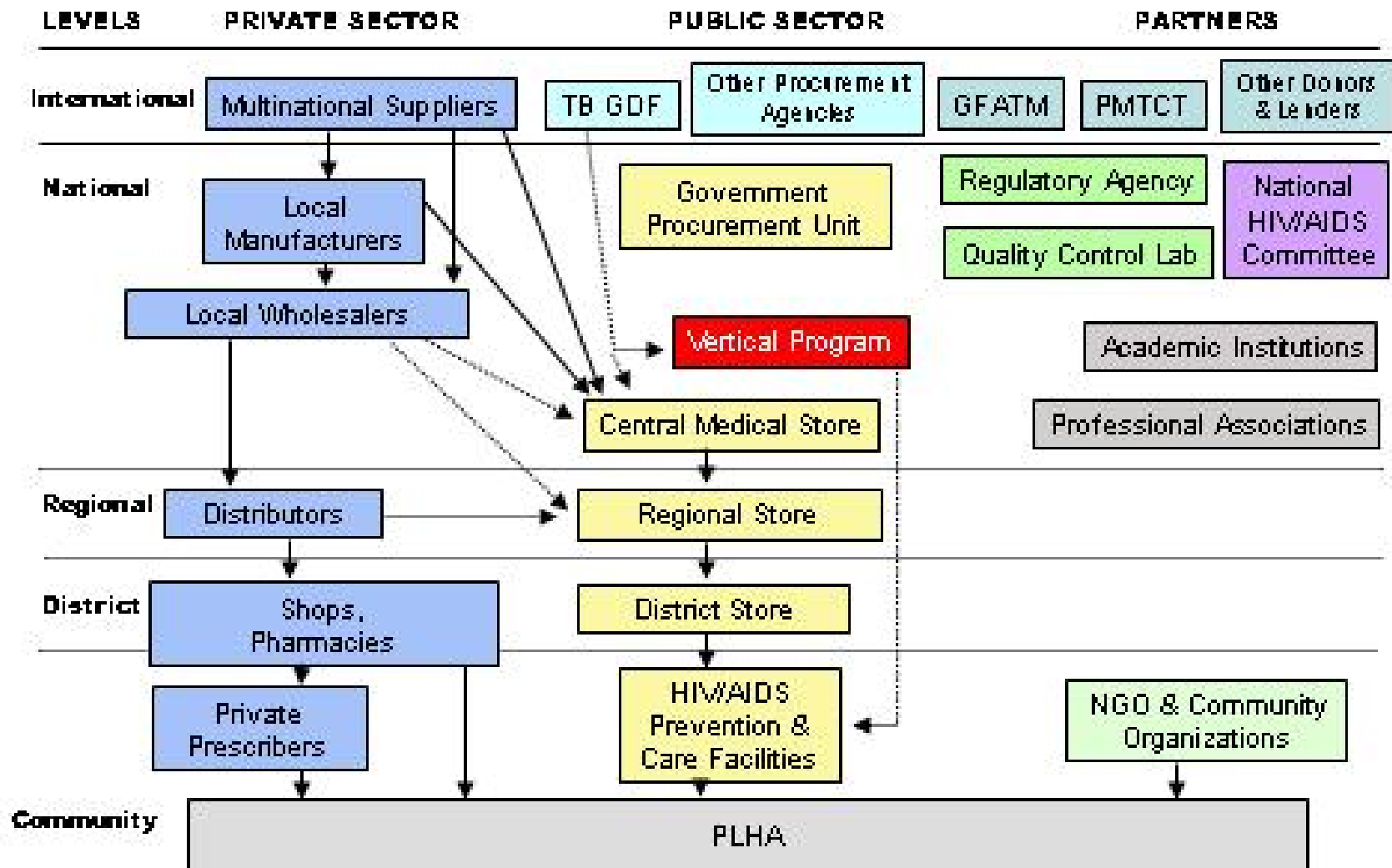
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### 3. Pharmaceutical Management

**Commodities are available  
and appropriately used**



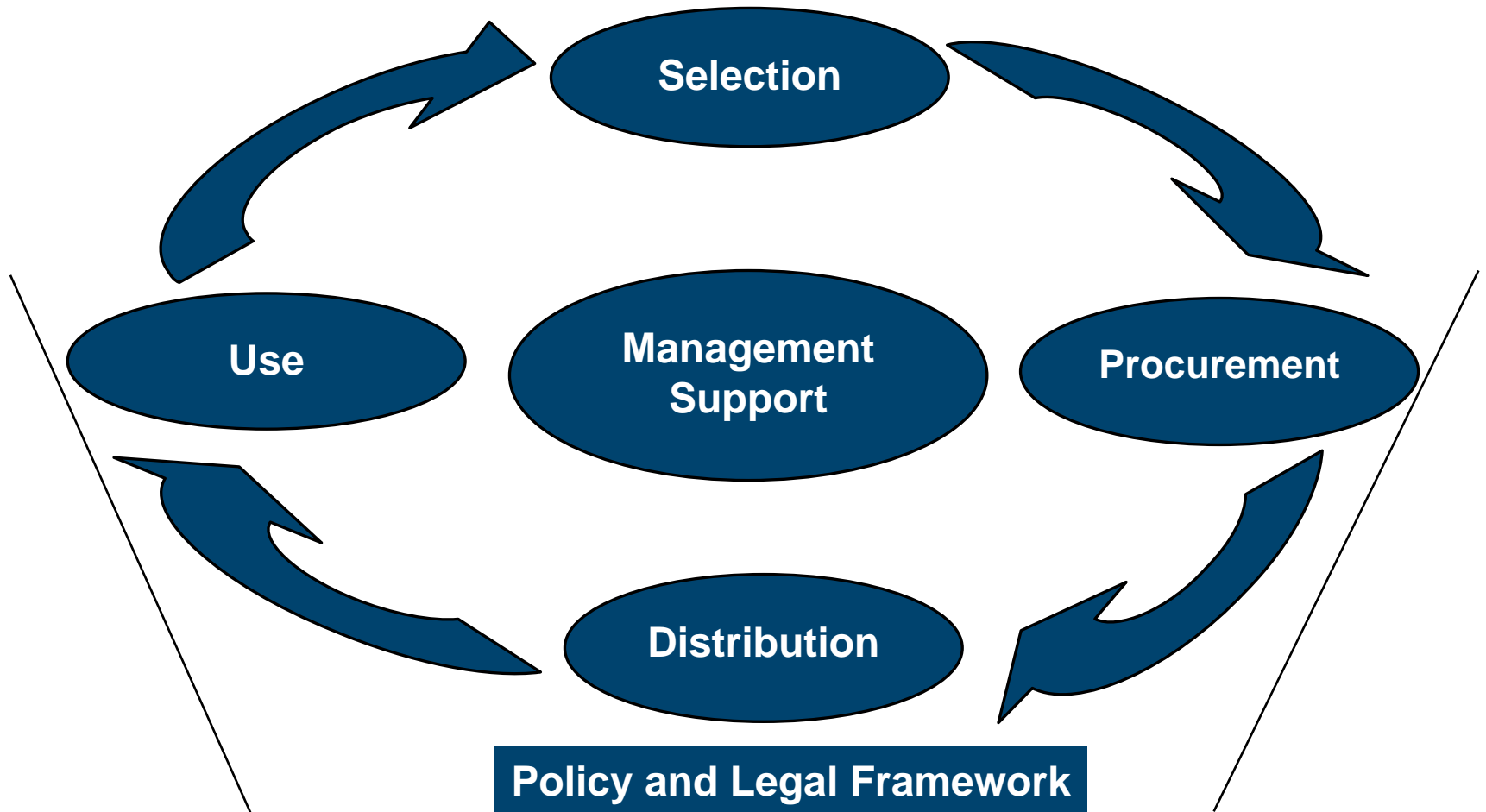
# The HIV/AIDS Pharmaceutical System



# **USAID works on drug management in order to:**

- Provide drug access to 1/3 world's population without it**
- Reduce Counterfeit drugs (10-35% in developing countries)**
- Improve info that makes  $\frac{1}{2}$  all drugs unsafe/ineffective**
- Protect effectiveness of current drugs from antimicrobial resistance**

# Pharmaceutical Management Cycle



## Key Issue: Containing Drug Resistance

*Resistance leads to:*

- More expensive drugs
- More complex treatment regimens
- More toxic drugs and dosing regimens
- No drugs (like pre-antibiotic era)

Examples: multi-drug resistant (MDR) malaria,  
tuberculosis, dysentery, acute respiratory infections,  
HIV/AIDS



What would you do, considering:

- 1) Health Service Delivery
- 2) Human Resources
- 3) Pharmaceutical Management





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## 4. Health Governance



# What is Governance?

“The process of competently directing health system resources, performance, and stakeholder participation toward the goal of saving lives and doing so in ways that are open, transparent, accountable, equitable, and responsive to the needs of the people”

# Why worry about governance?

- 1/3<sup>rd</sup> of government procured essential drugs missing leading to nationwide stock-outs
- Local government spends limited health resources on painting hospitals instead of primary care
- Counterfeit drugs more widely available at drug stores than legitimate drugs
- Policymakers unable to pass major finance reforms because of power struggle between two MOH individuals
- 19% of human resource payroll spent on “ghost workers”

# Five key dimensions of governance

1. Information/Assessment capacity
2. Policy Formulation and Planning
3. Social Participation and System Responsiveness
4. Accountability
5. Regulatory Capacity



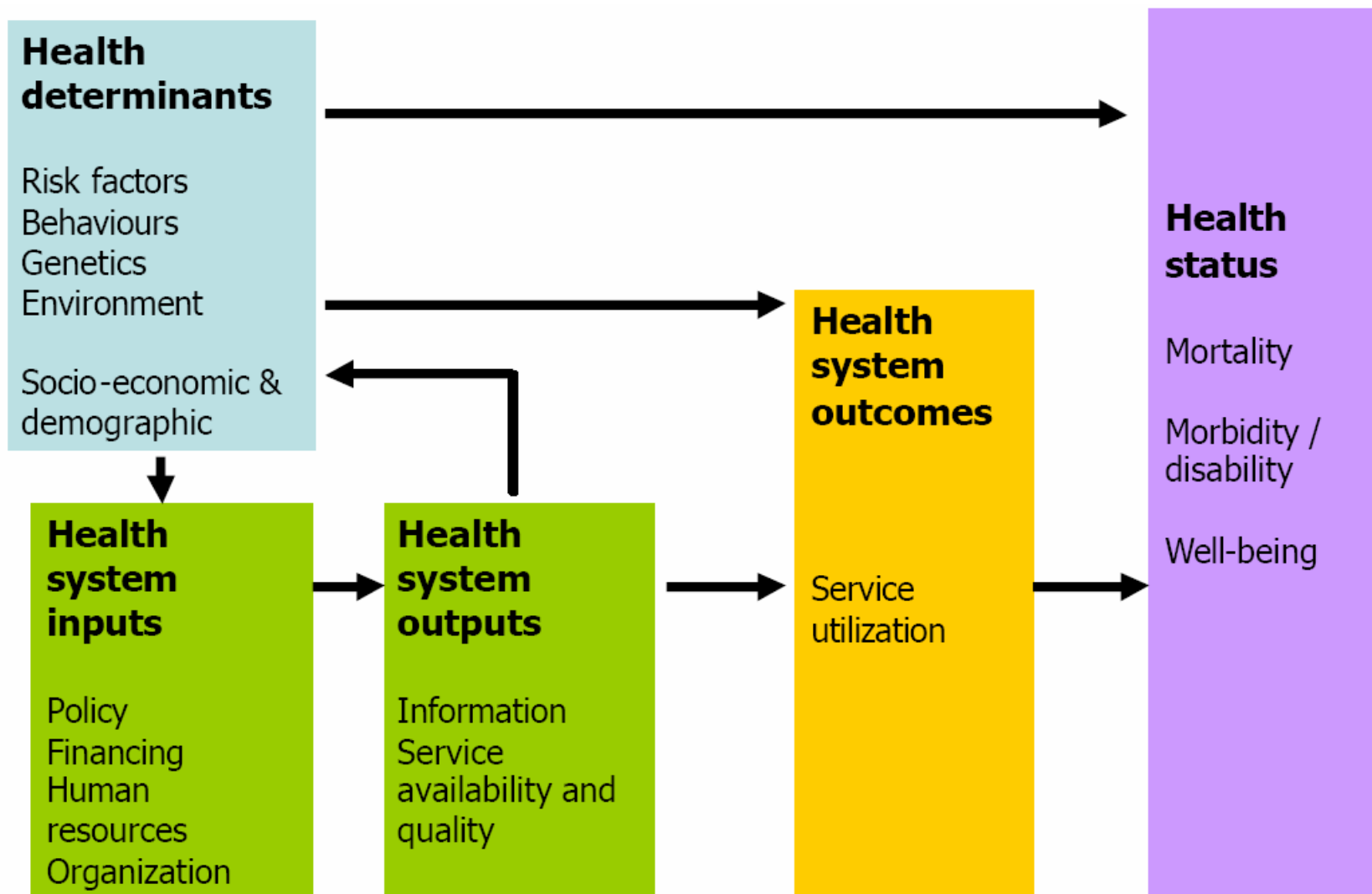
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## 5. Health Information Systems

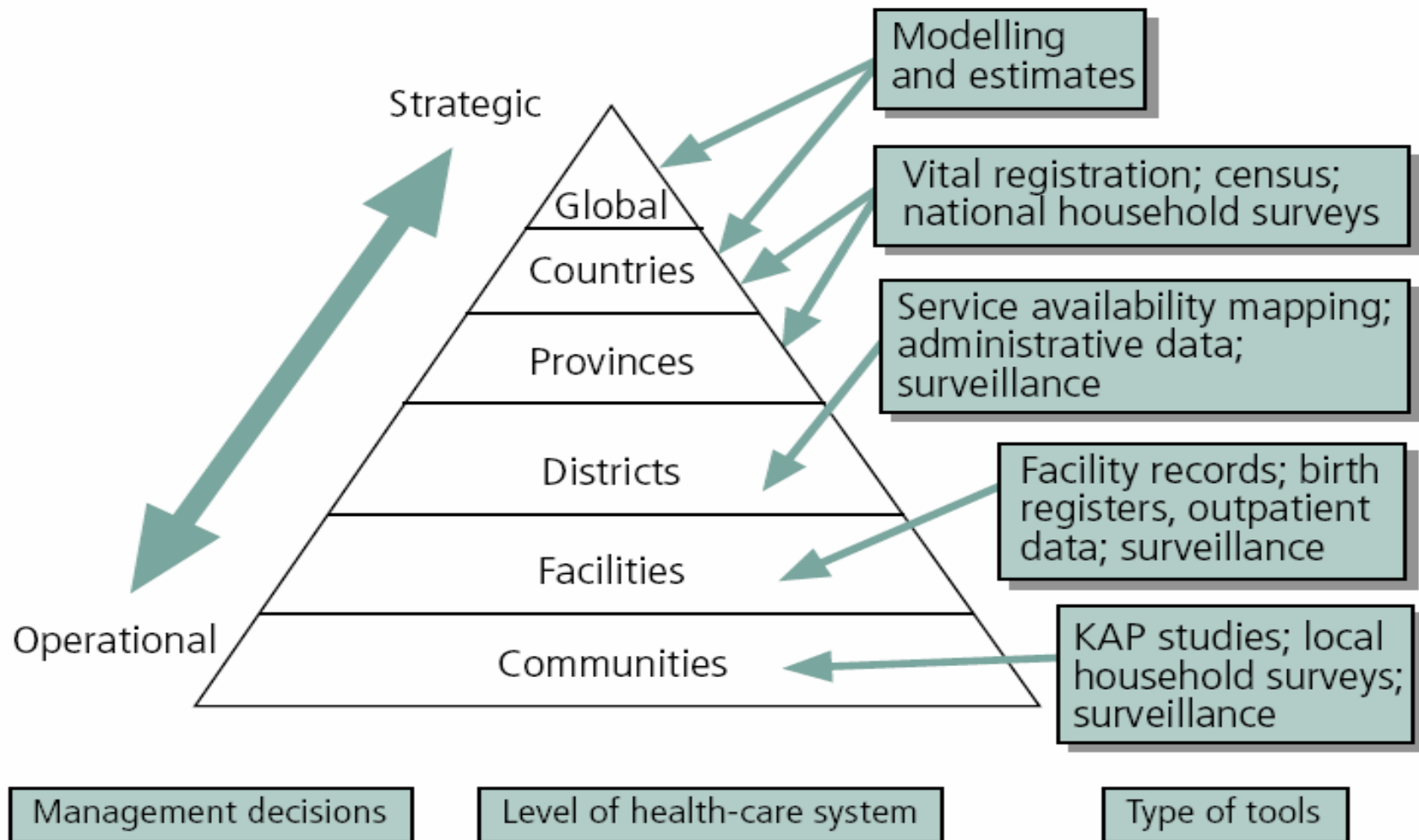
# Why Health Information Systems?

- Detect and control emerging and endemic health problems; monitor progress towards health goals; and promote equity.
- Empower individuals and communities with timely and understandable health-related information; and drive improvements in quality of services.
- Strengthen the evidence base for effective health policies; permit evaluation of scale-up efforts; and enable innovation through research.
- Improve governance; mobilize new resources; and ensure accountability in their use.

# What can we measure?



# Information: Who needs it and why?

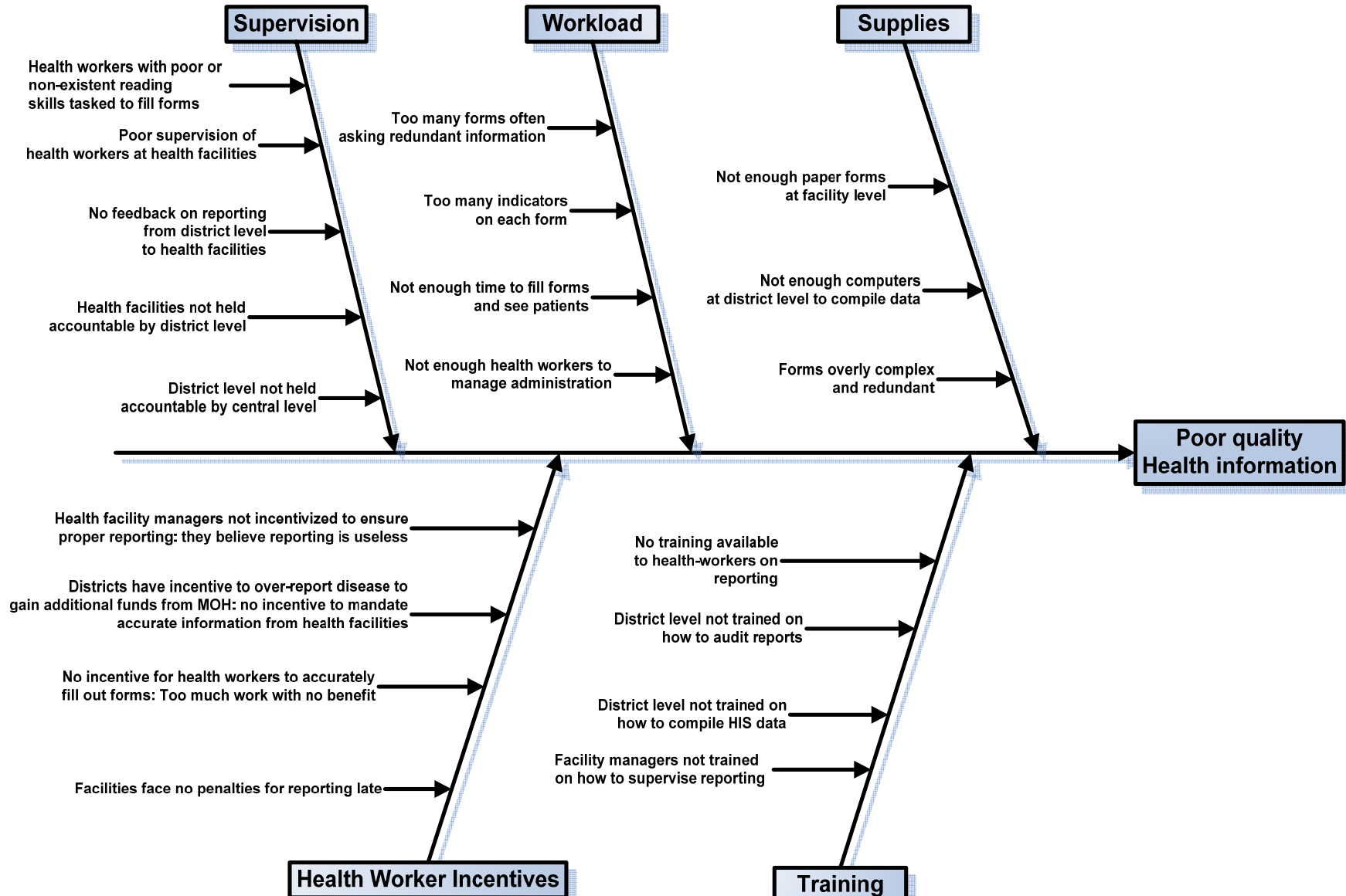






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# Why are systems broken?





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## 6. Health Finance

# A conceptual overview of finance

## Functions

## Objectives

### Revenue Collection



raise *sufficient* and *sustainable* revenues in an *efficient* and *equitable* manner to provide individuals with both a *basic package of essential services* and *financial protection against* unpredictable catastrophic financial losses caused by illness and injury

### Pooling



manage these revenues to *equitably* and *efficiently* pool health risks

### Purchasing

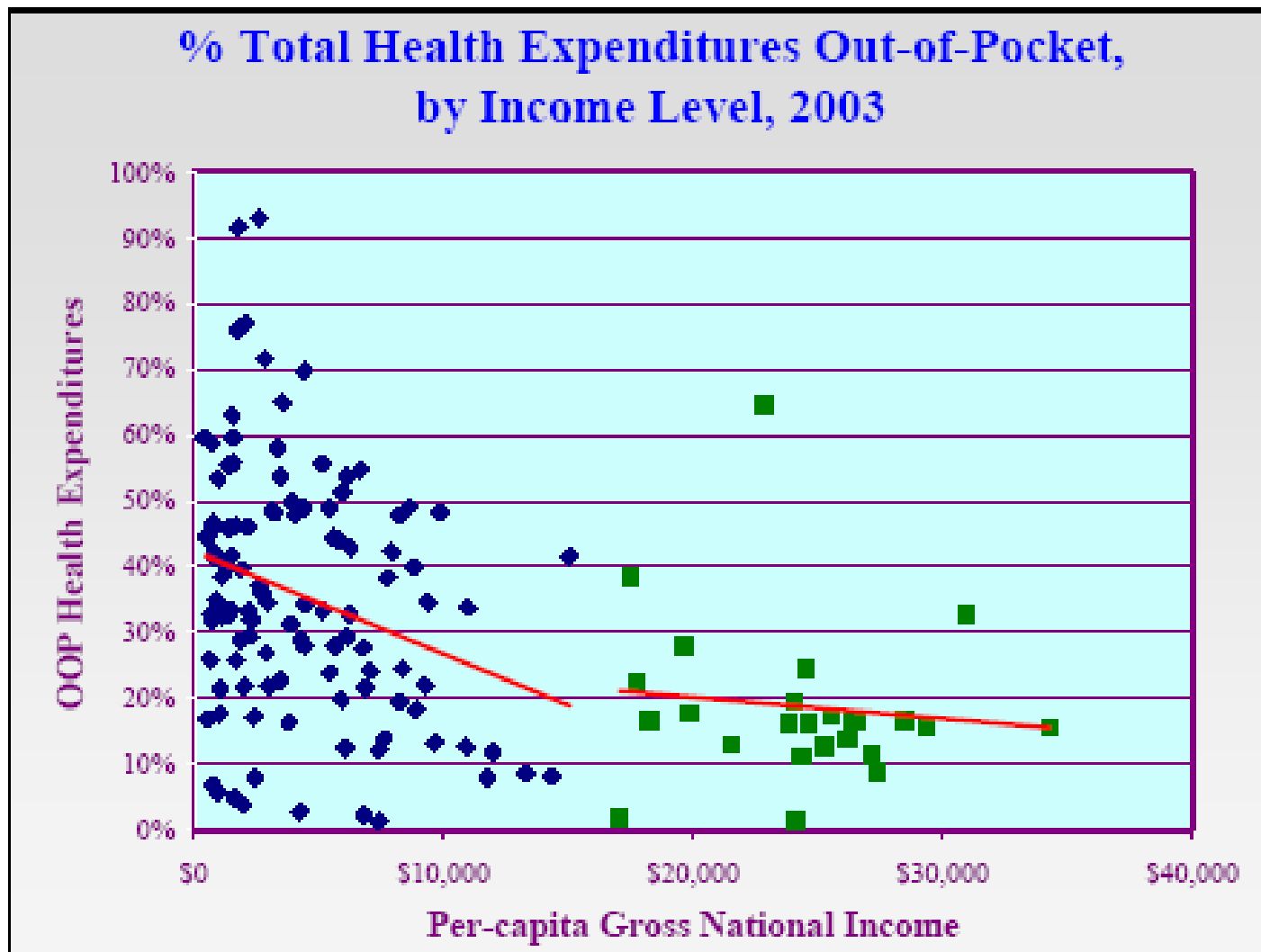


assure the purchase of health services in an *allocatively* and *technically efficient* manner



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# Fact: OPEX is high in poor countries



# Why are OPEX so high?

- Small to non-existent recurrent cost budget from local/central governments forces facilities to charge user-fees
- Poor prioritization by governments: diverting disproportionately more resources to tertiary care than to primary care
- Low overall government expenditures on health: \$21 per capita in low-income countries, with some below \$13



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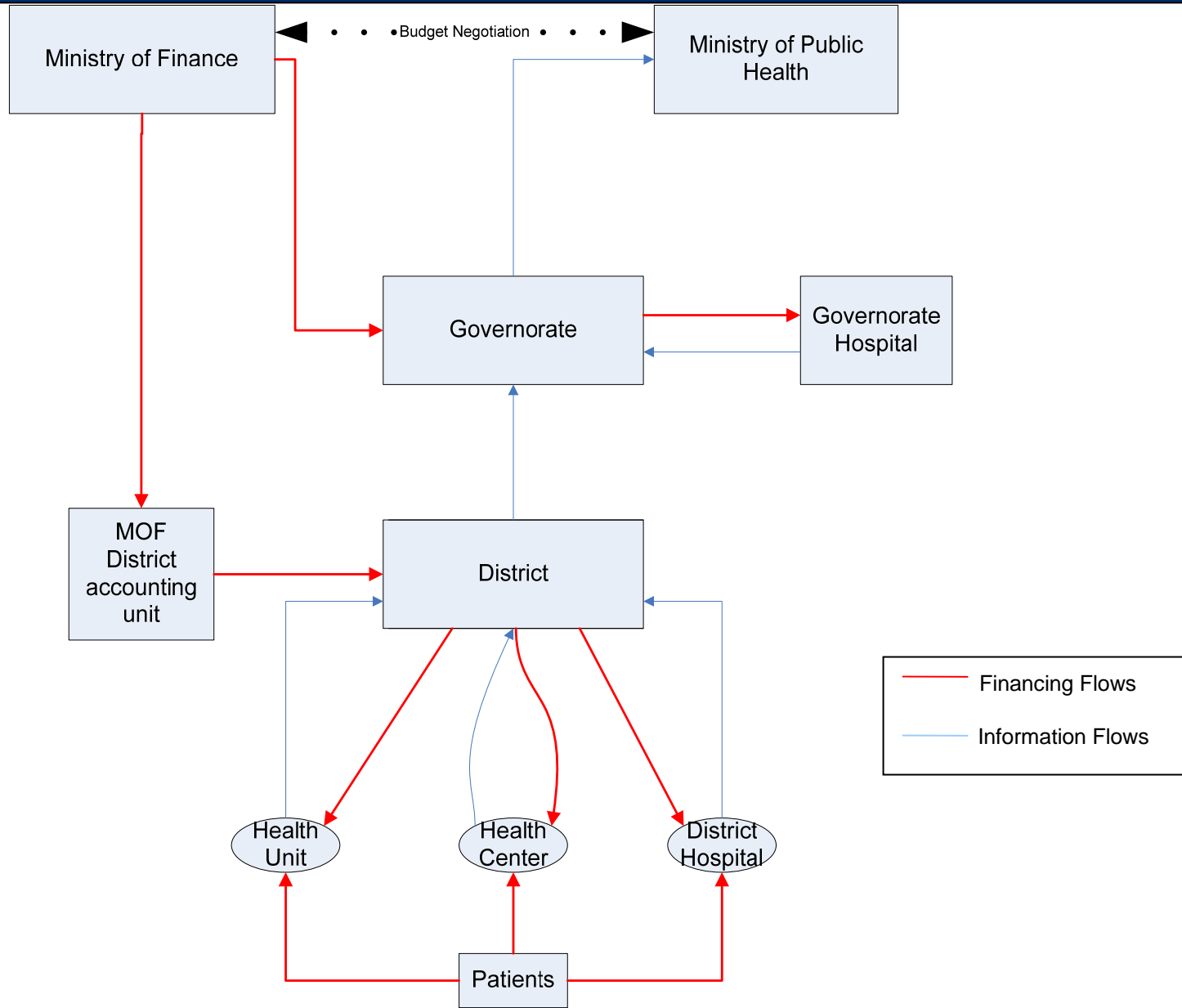
## Two Strategies for USAID:

- 1) Improve government allocations to health
- 2) Increase efficiency of out-of-pocket expenditures



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# Improving Government Health Allocations: Data for decision-making

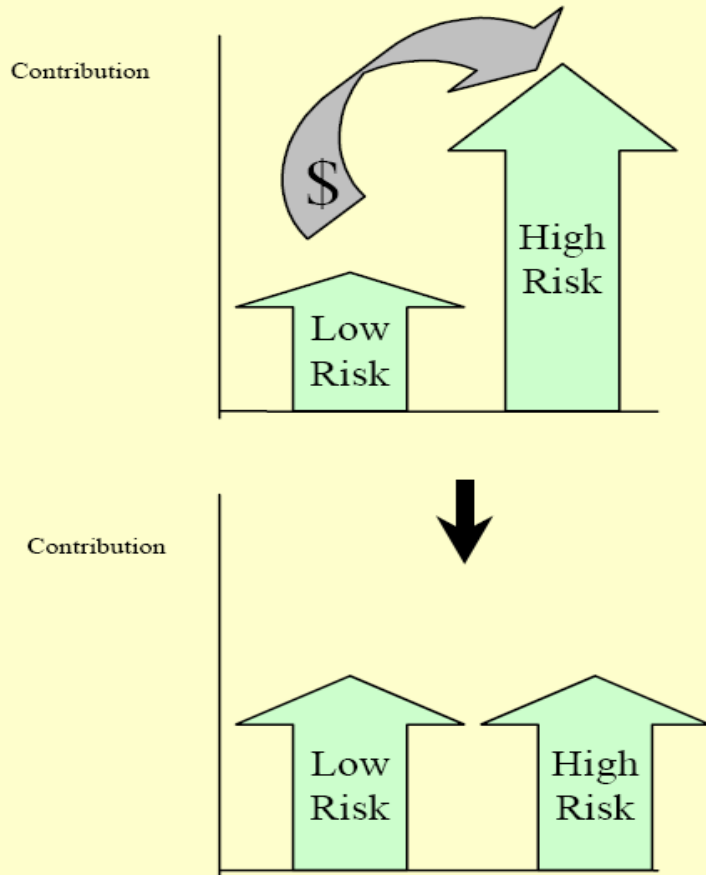




# Increasing efficiency of OPEX

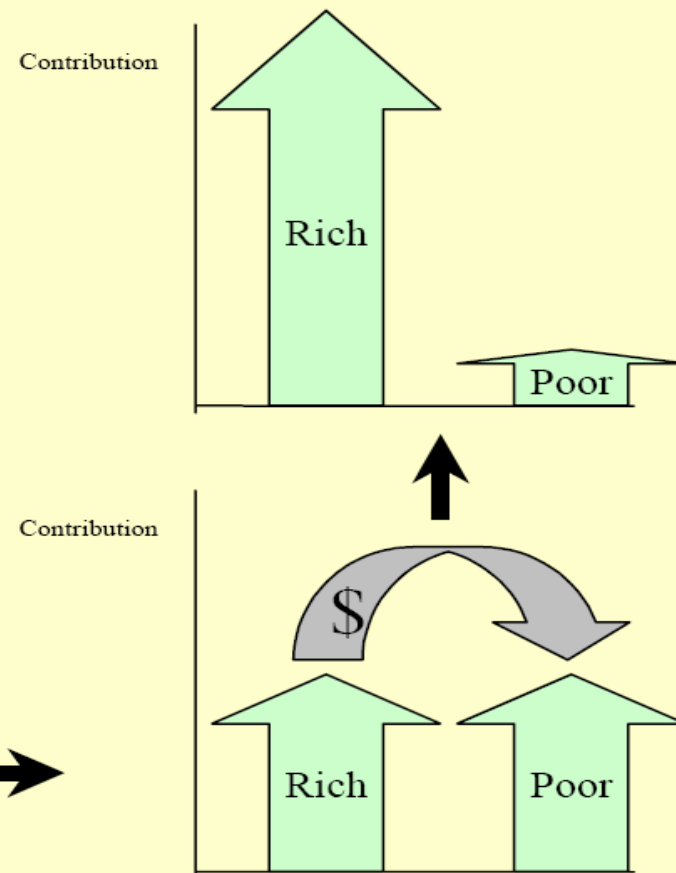
## POOLING

CROSS SUBSIDIES FROM  
LOW TO HIGH RISK



## EQUITY

CROSS SUBSIDIES FROM  
RICH TO POOR







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## How can we accomplish this in real life?

1. Insurance (Social, Community-based, etc)
2. Targeted Subsidies
3. Conditional Cash Transfers



# Ethiopia Case Example

The problem:

- 1) Regional government sends standard, line-item budget to all health facilities irrespective of local health needs.
- 2) User fees collected cannot be used by facility – must be sent back to regional level.
- 3) Very low utilization of health facilities due to lack of relevant commodities and drugs



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What would you do, considering:

- 1) Finance
- 2) Information Systems
- 3) Governance

# Central Health Systems Projects

- Health Systems 20/20 (HS 20/20): <http://www.healthsystems2020.org/>
- Rational Pharmaceutical Management Plus (RPM Plus):  
<http://www.msh.org/projects/rpmplus/>
- United States Pharmacopeia Drug Quality and Information (USP DQI):  
<http://www.uspdqi.org/about/>
- Quality Assurance and Workforce Development (QAWD): <http://www.qaproject.org/>
- Service Delivery Improvement (SDI): (QAWD follow-on coming soon)
- MEASURE Evaluation: <http://www.measureprogram.org/>
- MEASURE Demographic and Health Surveys (DHS): <http://www.measuredhs.com/>
- Capacity: <http://www.capacityproject.org/>
- Health Policy Initiative (HPI): <http://www.policyproject.com/>;  
<http://ghiqc.usaid.gov/hpi/index.html>
- Leadership, Management and Sustainability (LMS): <http://www1.msh.org/projects/lms/>
- Private Sector Program IQC (PSP IQC): <http://www.pspiqc.org/>
- Private Sector Partnerships-One (PSP-One): <http://www.psp-one.com/>
- USAID | DELIVER Project: <http://deliver.jsi.com>
- Supply Chain Management System (SCMS): [www.scms.pfscm.org](http://www.scms.pfscm.org)

Revised May 2007

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- Partners for Health Reform *plus* (PHRplus): <http://www.phrplus.org/>
- Rational Pharmaceutical Management Plus (RPM Plus):  
<http://www.msh.org/projects/rpmplus/>
- United States Pharmacopeia Drug Quality and Information (USP DQI):  
<http://www.uspdqi.org/about/>
- Quality Assurance and Workforce Development (QAWD): <http://www.qaproject.org/>
- MEASURE Evaluation: <http://www.measureprogram.org/>
- MEASURE Demographic and Health Surveys (DHS): <http://www.measuredhs.com/>
- Capacity: <http://www.capacityproject.org/>
- Policy II: <http://www.policyproject.com/>
- Policy Dialogue and Improvement (PDI) (Policy II follow-on coming soon)
- Management and Leadership Development (M&L): <http://www.msh.org/projects/mandl/>
- Leadership, Management and Sustainability (LMS): (M&L follow-on; no website)
- Private Sector Program IQC (PSP IQC): <http://www.pspiqc.org/>
- Private Sector Partnerships-*One* (PSP-*One*): <http://www.psp-one.com/>
- Deliver: <http://www.deliver.jsi.com/newvern>
- Supply Chain Management System (SCMS): [www.scms.pfscm.org](http://www.scms.pfscm.org)

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